# V.C. SUMMER NUCLEAR STATION

# NRC JOB PERFORMANCE MEASURE

**JPSF-012** 

DROPPED ROD RECOVERY

Revision No. 1

Faulted JPM

A19

	DROPPED ROD RECOVERY				
<u> </u>					
	TRAINEE		VALUATOR		
	EVALUATOR SIGNATURE _			DATE _	
	EVALUATION METHOD: EVALUATION LOCATION:				
	ESTIMATED TIME:	10.0 MINUTES		TIME STARTED:	st
 	10CFR55.45(A)5				
	TIME CRITICAL: No	FAULTED JE	PM: Yes		
	TRAINEE PERFORMANCE:	SATISFACTORY	UN	ISATISFACTORY	

READ TO OPERATOR:

WHEN I TELL YOU TO BEGIN, YOU ARE TO PERFORM THE ACTIONS AS DIRECTED IN THE INITIATING CUES. I WILL DESCRIBE GENERAL CONDITIONS UNDER WHICH THIS TASK IS TO BE PERFORMED AND PROVIDE THE NECESSARY TOOLS WITH WHICH TO PERFORM THIS TASK. BEFORE STARTING, I WILL EXPLAIN THE INITIAL CONDITIONS, WHICH STEPS TO SIMULATE OR DISCUSS, AND PROVIDE INITIATING CUES.
WHEN YOU COMPLETE THE TASK SUCCESSFULLY, THE OBJECTIVE FOR THIS JOB PERFORMANCE MEASURE WILL BE SATISFIED.

#### **INITIAL CONDITIONS:**

 Plant was operating at 75% power with all controls in automatic when control rod "F2" dropped due to a blown fuse. The blown fuse was replaced in the 1AC power cabinet. Actions of AOP-403.6 have been completed through Step 10.

## TOOLS AND EQUIPMENT NEEDED:

1. AOP-403.6 (TO RECORD AFFECTED BANK HEIGHTS)

## REFERENCED DOCUMENTS:

**REV DATE** 

1. AOP\*403.6

DROPPED CONTROL ROD

10/10/97

## TASK STANDARDS:

 Manual reactor trip inserted after second control rod drops. DROPPED ROD RECOVERY

## **INITIATING CUES:**

1. CRS has directed NROATC to recover control rod "F-2" per AOP-403.6, starting with Step 11.

## **TERMINATING CUES:**

1. Manual reactor trip inserted.

## SAFETY CONSIDERATIONS:

NONE

## JOB PERFORMANCE MEASURE CHECKLIST

- (S) DENOTES SEQUENCED ELEMENT
- (\*) DENOTES CRITICAL ELEMENT

# PERFORMANCE CHECKLIST:

SAT. UNSAT.

#### **STEP**

## **STANDARD**

 Record Step Counter readings for both groups of the affected bank. Step counter reading for both groups in Control Bank "A" have been recorded.

NOTE 2: Booth operator gives examinee P/A converter reading of 228 steps.

#### **STEP**

#### **STANDARD**

Record P to A Converter Reading. P to A converter reading has been recorded.

#### **STEP**

#### **STANDARD**

\*3. Rotate ROD CNTRL BANK SEL switch clockwise to the affected bank position ROD CNTRL BANK SEL Switch has been rotated clockwise to the CBA position

COMMENTS:

### **STEP**

## **STANDARD**

 Manually reset Demand Step Counter for the affected group to zero. The step counter for Bank A GROUP 1 has been reset to zero

NOTE 5: As the CRS, examiner should prompt the examinee to disconnect the affected bank. Explain that the BOP operator will watch the MCB while he accomplishes this task.

#### **STEP**

## **STANDARD**

\*5. Place all Lift Coil Disconnect Switches for the affected bank, except switches for the dropped rod, to the ROD DISCONNECTED position All lift coil disconnect switches for Control Bank "A" rods, except Rod "F-2", have been placed in the ROD DISCONNECTED position

## JOB PERFORMANCE MEASURE CHECKLIST

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- (S) DENOTES SEQUENCED ELEMENT (\*) DENOTES CRITICAL ELEMENT

## PERFORMANCE CHECKLIST:

2°F of TREF.

SAT. UNSAT.

COMME	INTS:			
NOTE	whether to depress the ROD	gent Alarm will alarm. If examinee asks CNTRL ALARM RESET switch, as the CRS, switch after the rod has been realigned.		
	STEP	STANDARD		
		Rod F2 is moving in the outward		
*6.	Withdraw the dropped rod: drive the affected bank out	direction	<del></del>	
	drive the affected bank out	<del>_</del>		
	drive the affected bank out	<del>_</del>	<del></del>	
OMME	drive the affected bank out	direction		
OMME	STEP  Verify dropped rod movement on the digital rod position	STANDARD  DRPI indicator for rod "F-2" in Bank "A" is verified to be moving out in 6 step		-

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(S) DENOTES SEQUENCED ELEMENT

(\*) DENOTES CRITICAL ELEMENT

PEI	RFORMANCE CHECK	LIST:	SAT.	UNSAT.
	STEP	STANDARD		
9.	Adjust turbine load to maintain Tavg within ±5°F of Tref.	Tavg - Tref within ±5°F.		
	<u>STEP</u>	STANDARD		
S*10.	Observes a second control rod drops into the core.	Observes control rod P6 drop into the core.		
COMME	NTS:			
NOTE	control rod P6 drop. Continu	a manual reactor trip upon observing uing to withdraw original dropped rod more nd rod is dropped constitutes failure.		
	STEP	<b>STANDARD</b>		
*11.	Inserts a manual reactor trip	Places the manual reactor trip switch to the TRIP position. Both Reactor Trip breakers indicate green light ON, red light OFF. All rod bottom lights are lit.		
COMME	NTS:			
Exami	ner Stops JPM At This Point			
mtMP (	TTOPPED.			

DROPPED ROD RECOVERY	
CENTED AT COMPANIES	
GENERAL COMMENTS:	

## NRC KA REFERENCES:

KA NUMBER

000003.EA1.02

Ability to operate controls and components necessary to recover a dropped rod.

IMPORTANCE FACTOR
RO
3.6
3.4